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(21) International Application Number: PCT/US00/10592 (22) International Filing Date: 19 April 2000 (19.04.00) (30) Priority Data: 60/130,165 20 April 1999 (20.04.99) US (71) Applicant (for all designated States except US): STRATASYS, INC. [US/US]; 14950 Martin Drive, Eden Prairie, MN 55344-2020 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): PRIEDEMAN, William, R., Jr. [US/US]; 405 South Willow Drive, Long Lake, MN 55356 (US). BROSCHE, Andrea, L. [US/US]; 6470 Undestad Street, Eden Prairie, MN 55346 (US). (74) Agent: CHAPMAN, Gena, M.; Kinney & Lange, P.A., Kinney & Lange Building, 312 South Third Street, Minneapolis, MN 55415-1002 (US).		(81) Designated States: CN, DE, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: SOLUBLE MATERIAL AND PROCESS FOR THREE-DIMENSIONAL MODELING <div data-bbox="436 1125 1146 1661" data-label="Image"> </div> (57) Abstract <p>A process for three-dimensional modeling in which an alkali-soluble thermoplastic material is used in an additive deposition process to form a soluble support structure (28) for a three-dimensional object (26) under construction. The alkali-soluble thermoplastic material includes a base polymer of carboxylic acid and a plasticizer. Following formation, the object (26) is placed in an alkaline bath to dissolve the support structure (28). The alkali-soluble material can be used to form an alkali-soluble three-dimensional object (26).</p>		

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